Hellenic National Sentinel Data Mirror Site

Version 2

Quick Guide

NOA Hellenic National Sentinel Data Mirror Site Team

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Index page

The index page of the Hellenic mirror site for the Sentinel-1 Collaborative Data Hub of the European Space Agency (ESA) can be found in the following address: http://sentinels.space.noa.gr/

So, if a Web user types the above URL in the address bar of a Web browser application (e.g. Mozilla Firefox) the index page will be displayed as it looks like in the following figure:

Hellenic National Sentinel Data Mirror Site
Provided by the:
National Observatory of Athens
Powered by the:
Greek Research & Technology Network
OVERVIEW
ABOUT
User Name
Password
Login
Header
OVERVIEW
The Hellenic National Sentinel Data Mirror Site is a web based system designed to provide EO data users with Search - Cataloguing - Order and Dissemination capabilities for the Sentinel products.
This current version is the first operational prototype developed under the current EU-ESA GMES / NOA agreement.
Detailed information on Sentinel products and Data Access mechanisms is available at https://sentinel.esa.int/web/sentinel/sentinel-data-access
References
http://www.copernicus.eu/
https://sentinel.esa.int/
Register at the Hellenic National Sentinel Data Mirror Site.
REGISTRATION
View the Hellenic National Sentinel Data Mirror Site User Manual.
Forgot yout password?
Body
NOA Hellenic National Sentinel Data Mirror Site Team
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National Observatory of Athens
Last Updated: 03 March 2015
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NOA Web Site: www.noa.gr
IAASARS Web Site: www.astro.noa.gr
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Footer
Web Template created with Artisteer.

Figure 1: Preview of the Hellenic Sentinel Mirror Site's index page

Index page layout

The layout of the index page is comprised of the following areas: **header** (which is identical to all the pages of the site), **footer** (which is identical to all the pages of the site) and the **body** which differs from page to page.

Header

In the header of the index page the Web user will notice the **logos** of the counterparts that collaborated in the implementation of the mirror site, the **OVERVIEW** and **ABOUT** tabs, as well as the **login form** (see Figure 2). At an initial phase, the user can either browse through the overview (which is the index page) and the about page which contains a detailed information about the mirror site or login (if the user is already registered) to the system using the login form.

Figure 2: Header preview of the Hellenic Sentinel Mirror Site's index page.

Body

In the body of the index page the user can find basic information about the mirror site and a number of links performing the following actions (see Figure 3):

- Link (A) is used for registration in order to gain access in the cataloguing, ordering and downloading functionalities of the mirror site.
- Link (B) is used in order to download the present manual.
- Link (C) is used in case the user misses the registration password and in order to re-gain access by providing a new one.

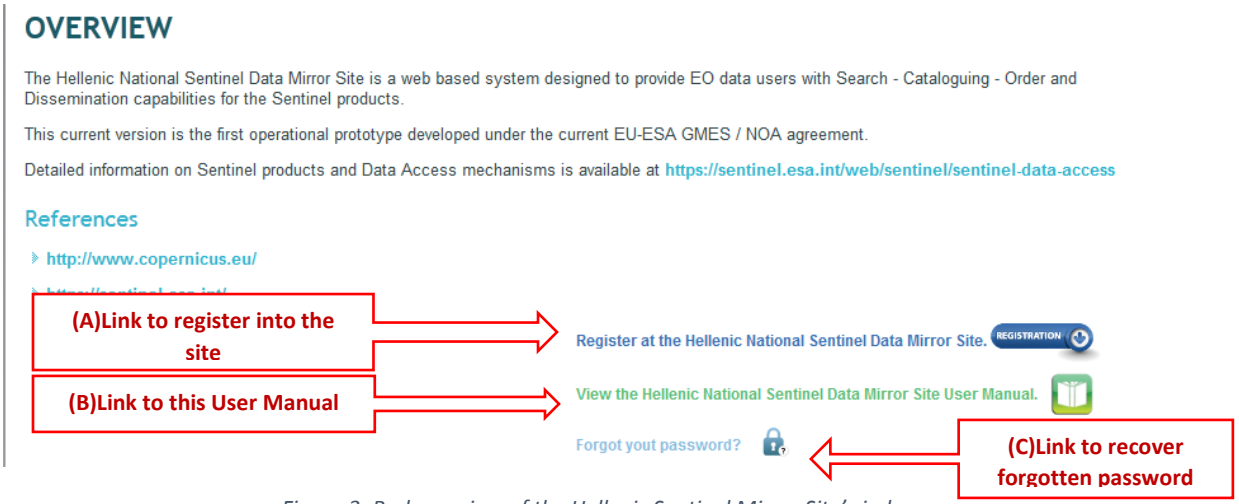
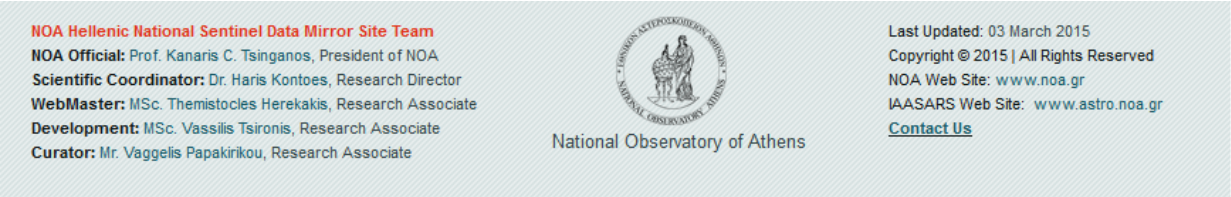

OVERVIEW
The Hellenic National Sentinel Data Mirror Site is a web based system designed to provide EO data users with Search - Cataloguing - Order and Dissemination capabilities for the Sentinel products.
This current version is the first operational prototype developed under the current EU-ESA GMES / NOA agreement.
Detailed information on Sentinel products and Data Access mechanisms is available at https://sentinel.esa.int/web/sentinel/sentinel-data-access
References
http://www.copernicus.eu/
(A)Link to register into the site
Register at the Hellenic National Sentinel Data Mirror Site.
REGISTRATION
(B)Link to this User Manual
View the Hellenic National Sentinel Data Mirror Site User Manual.
Forgot yout password?
(C)Link to recover forgotten password

Figure 3: Body preview of the Hellenic Sentinel Mirror Site's index page.

Footer

In the footer of the index page the user can find all the necessary information related with the NOA and specifically IAASARS team that was responsible for the implementation of this project (see Figure 4).


NOA Hellenic National Sentinel Data Mirror Site Team
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National Observatory of Athens
Last Updated: 03 March 2015
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NOA Web Site: www.noa.gr
IAASARS Web Site: www.astro.noa.gr
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Figure 4: Footer preview of the Hellenic Sentinel Mirror Site's index page.

Registration to Mirror Site

In order to gain access in the mirror site's functionalities of cataloguing (i.e. searching, displaying), ordering and downloading Sentinel products you have to register.

The necessary steps to register into the mirror site are the following:

1. Go to index page: http://sentinels.space.noa.gr/
2. Click on the **Are you interested entering Sentinel Data Hub system?** Link found on the body of the index page (see Figure 3 above).
3. You will be redirected to the registration page; carefully fill the registration form found there. The fields that have an asterisk are mandatory and must be filled anyway (see Figure 5).
4. In the end, click the register button.

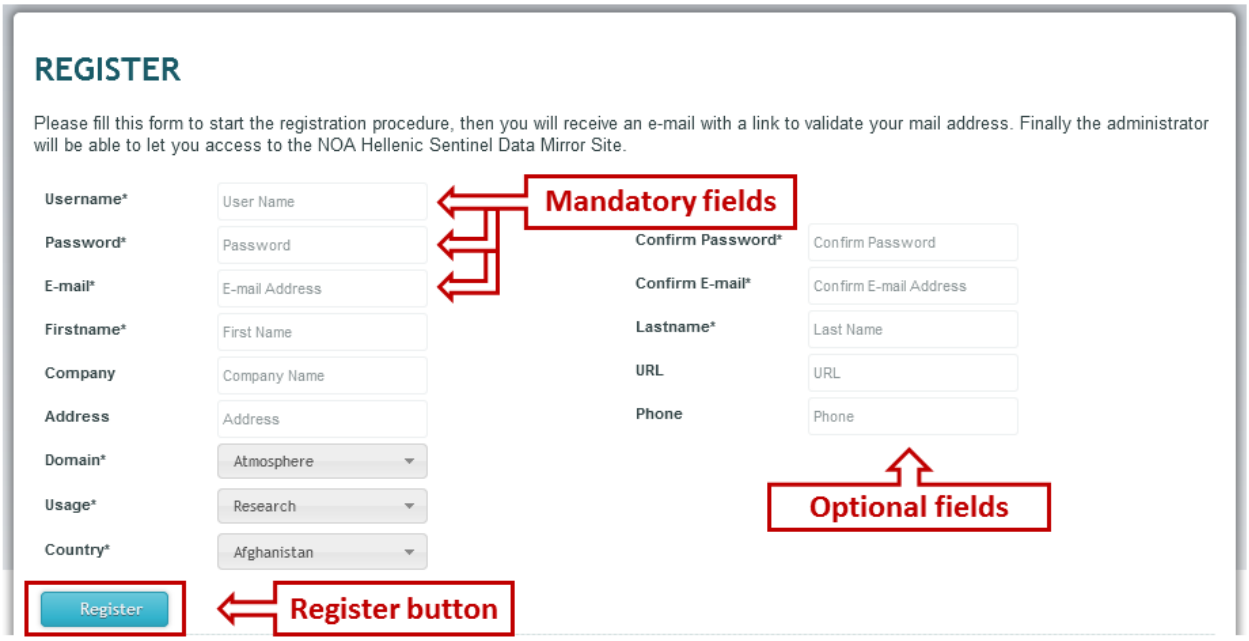

Figure 5: Preview of Hellenic Sentinel Mirror Site's registration page.

The final step in the registration requires the **activation** of your mirror site account through your email account. If the registration procedure completed successfully, an email asking you to confirm / activate your mirror site will be sent to the email address that you used in the **E-mail** field of the registration form. After your account activation, you will be able to login to the mirror site.

Password Recovery

In order to recover a missing password, please follow the next steps:

1. Go to the index page: http://sentinels.space.noa.gr/
2. Click on the Forgot your password? link found on the body of the index page (see Figure 3 above).
3. You will be redirected to the Reset Password page; carefully fill-in the form found there with the email address that you used in order to register (see Figure 6: Preview of Hellenic Sentinel Mirror Site's reset password page.) and press the Reset button.
4. An email with a link, prompting to reset your password will be sent to your inbox.
5. When you click that link, you will be redirected to the Change Password page (see Figure 7), where you shall type the desired password and then press the submit button in order to change the old-missing one.

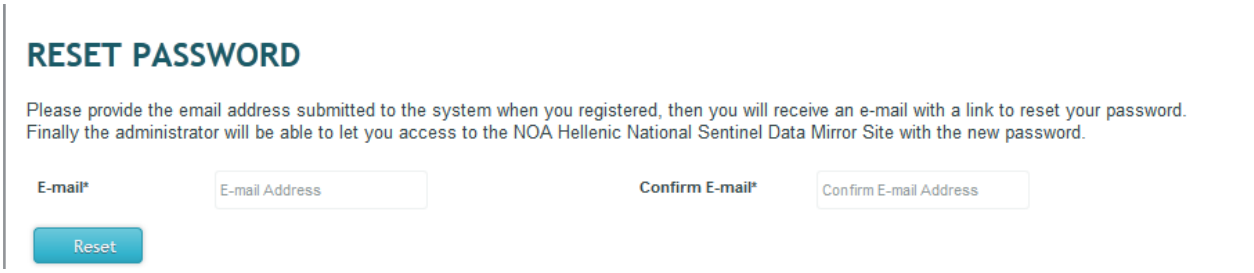
RESET PASSWORD
Please provide the email address submitted to the system when you registered, then you will receive an e-mail with a link to reset your password.
Finally the administrator will be able to let you access to the NOA Hellenic National Sentinel Data Mirror Site with the new password.
E-mail*
E-mail Address
Confirm E-mail*
Confirm E-mail Address
Reset

Figure 6: Preview of Hellenic Sentinel Mirror Site's reset password page.

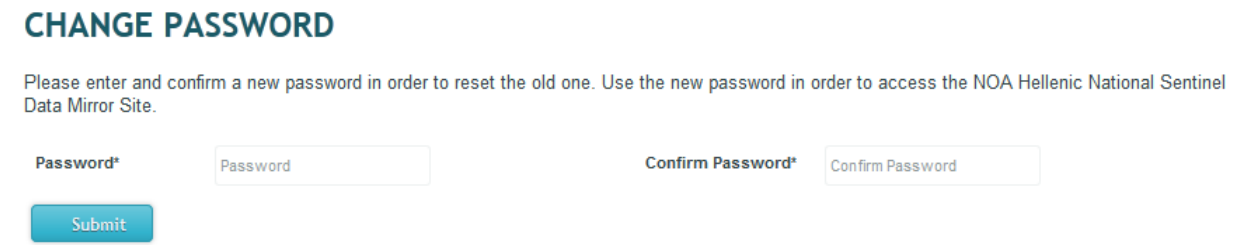
CHANGE PASSWORD
Please enter and confirm a new password in order to reset the old one. Use the new password in order to access the NOA Hellenic National Sentinel Data Mirror Site.
Password*
Password
Confirm Password*
Confirm Password
Submit

Figure 7: Preview of Hellenic Sentinel Mirror Site's change password page.

Login to Mirror Site

If you have successfully registered into the mirror site, you can login to that, following the steps below:

1. Go to index page: http://sentinels.space.noa.gr/
2. Go to the login form found on the header of the index page (see Figure 2 above).
3. Fill in the username and password fields.

After a successful login to the mirror site, the user will be redirected to the search page (see Figure 8 below). New tabs will also appear, such as the search, cart and user profile tabs.

Figure 8: Preview of Hellenic Sentinel Mirror Site's search page.

Search Products

In the search page the user can search through Sentinel products that satisfy specific Spatio-temporal and other criteria (see example below). More specifically the user has the ability to define the following search criteria through the search toolbar:

1. Define the Area of Interest (AOI) of the Sentinel products. The user can draw a polygon on the map found in the search page and search only for products that intersect with this polygon. For example a user may search only for products related with Greece.
2. Define the satellite that acquired the product, the level of the product, the satellite instrument, the product type and the product mode.
3. Define the period the products were generated, namely the sensing start and sensing stop dates.

In order to ensure that the user queries return a reasonable number of results, the system allows a maximum timespan between the entered sensing start and sensing stop dates which is dynamic and related to the defined AOI. Thus when a user requests a large timespan for a big AOI then the system limits that timespan accordingly, informs the user, and returns the results for that redefined timespan.

How to search products (An example)

In this section we provide a simple example that demonstrates how to search Sentinel products. In the example we will search L1, SLC, Sentinel-1 products for an AOI that mainly contains Greece and for a sensing period that starts at 23-01-2015 00:00:00 and stops at 05-03-2015 00:00:00. The steps needed to achieve this search are the following:

Click on the tool Draw region of interest tool (see

1. Figure 9 below).

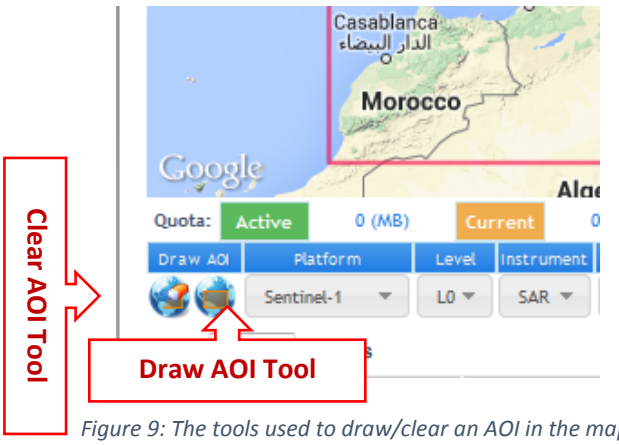

Figure 9: The tools used to draw/clear an AOI in the map.

2. Draw a polygon on the map that will cover the Greece (see Figure 10 below):

Figure 10: Example of how the polygon of an AOI looks like on the map (e.g. Greece as AOI).

3. Choose the satellite used to acquire the products (Sentinel-1), the level of the products (L1) and the mode of the products (SLC) (see Figure 11 below):

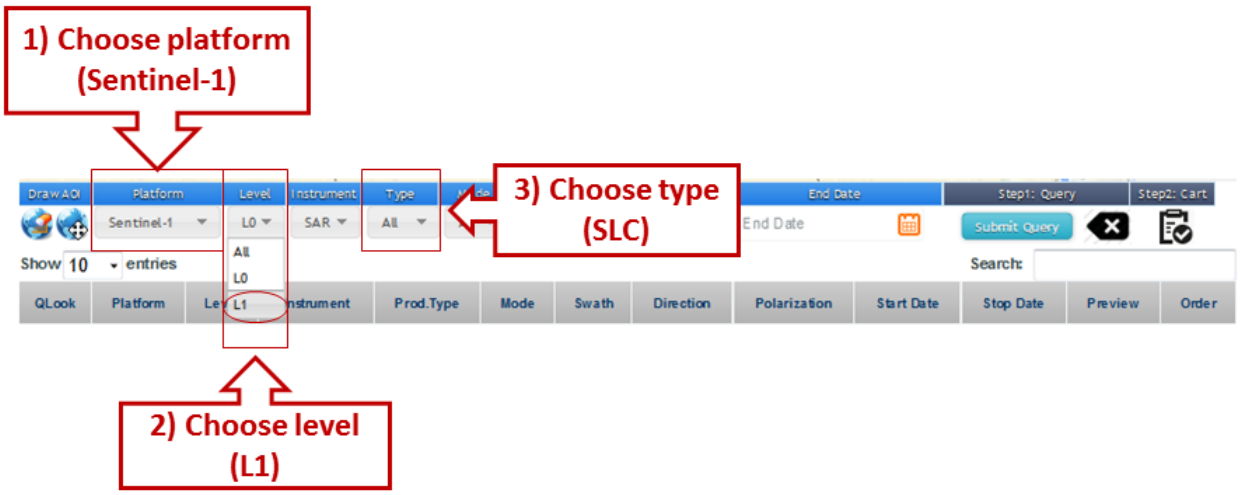

Figure 11: Example of how to choose search criteria (e.g. platform, product level and product type).

4. Finally choose the start date of the sensing period, as well the stop date using the corresponding calendar fields. The Figure 12 below shows how to choose a date as the sensing start date (with the same way you will choose the sensing stop date).

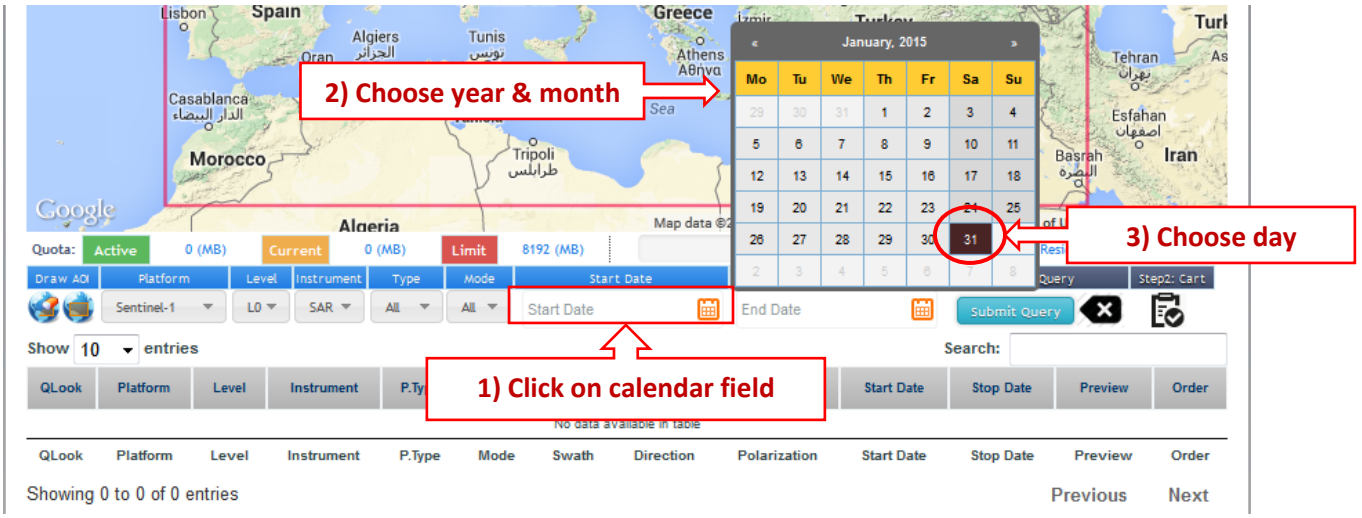

Figure 12: Example of how to choose a sensing start date.

5. When all the search criteria are chosen you are ready to submit your query, by clicking the *Submit Query* button.

Search results

After you submit a search query, the Sentinel products will be displayed underneath the search toolbar, in the results area (see Figure 8 above). Of course if there are not any Sentinel products that satisfy the search query, the results area will be empty. In Figure 13 below, the results of the previous example are displayed.

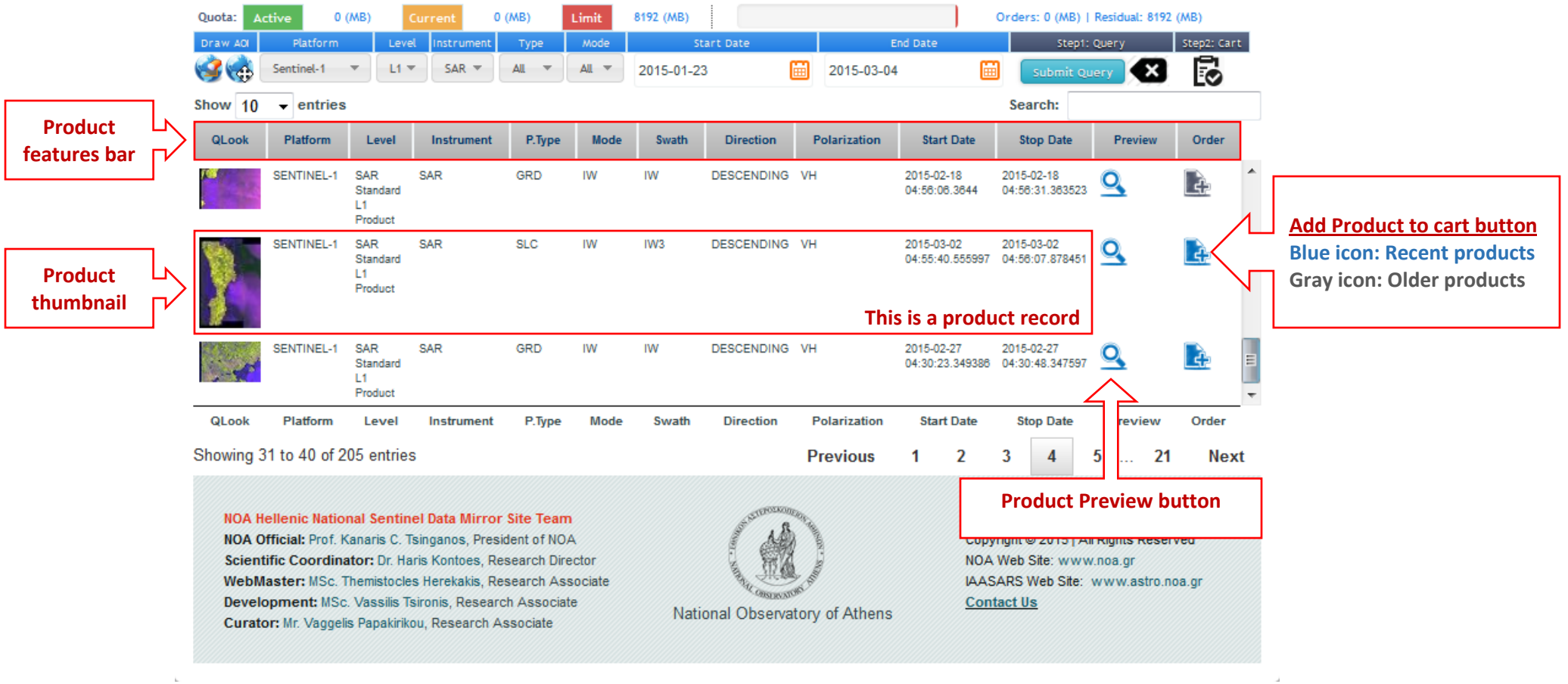
Product features bar
Product thumbnail
Add Product to cart button
Blue icon: Recent products
Gray icon: Older products
This is a product record
Product Preview button
Quota: Active 0 (MB) Current 0 (MB) Limit 8192 (MB)
Orders: 0 (MB) | Residual: 8192 (MB)
Draw AOI Platform Level Instrument Type Mode Start Date End Date Step1: Query Step2: Cart
Sentinel-1 L1 SAR All All 2015-01-23 2015-03-04 Submit Query
Show 10 entries
Search:
QLook Platform Level Instrument P.Type Mode Swath Direction Polarization Start Date Stop Date Preview Order
SENTINEL-1 SAR Standard L1 Product SAR GRD IW IW DESCENDING VH 2015-02-18 04:56:06.3644 2015-02-18 04:56:31.363523
SENTINEL-1 SAR Standard L1 Product SAR SLC IW IW3 DESCENDING VH 2015-03-02 04:55:40.555997 2015-03-02 04:56:07.878451
SENTINEL-1 SAR Standard L1 Product SAR GRD IW IW DESCENDING VH 2015-02-27 04:30:23.349386 2015-02-27 04:30:48.347597
Showing 31 to 40 of 205 entries
Previous 1 2 3 4 5 ... 21 Next
NOA Hellenic National Sentinel Data Mirror Site Team
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Figure 13: Preview of the Hellenic Sentinel Mirror Site's result area of search page

Preview Product

After you search for some products and your search query returns a result like the example above you are able to either preview your product or add it to a cart, in order to download it later (of course you can do both actions; preview product and then add to cart).

In order to preview a product, you have to click the preview button (see Figure 13 above). When you click this button a modal window is appearing that shows the following information in tabs: Quicklook, Summary, Product, Platform and Instrument information. It also illustrated the product's footprint (see Figure 14 below).

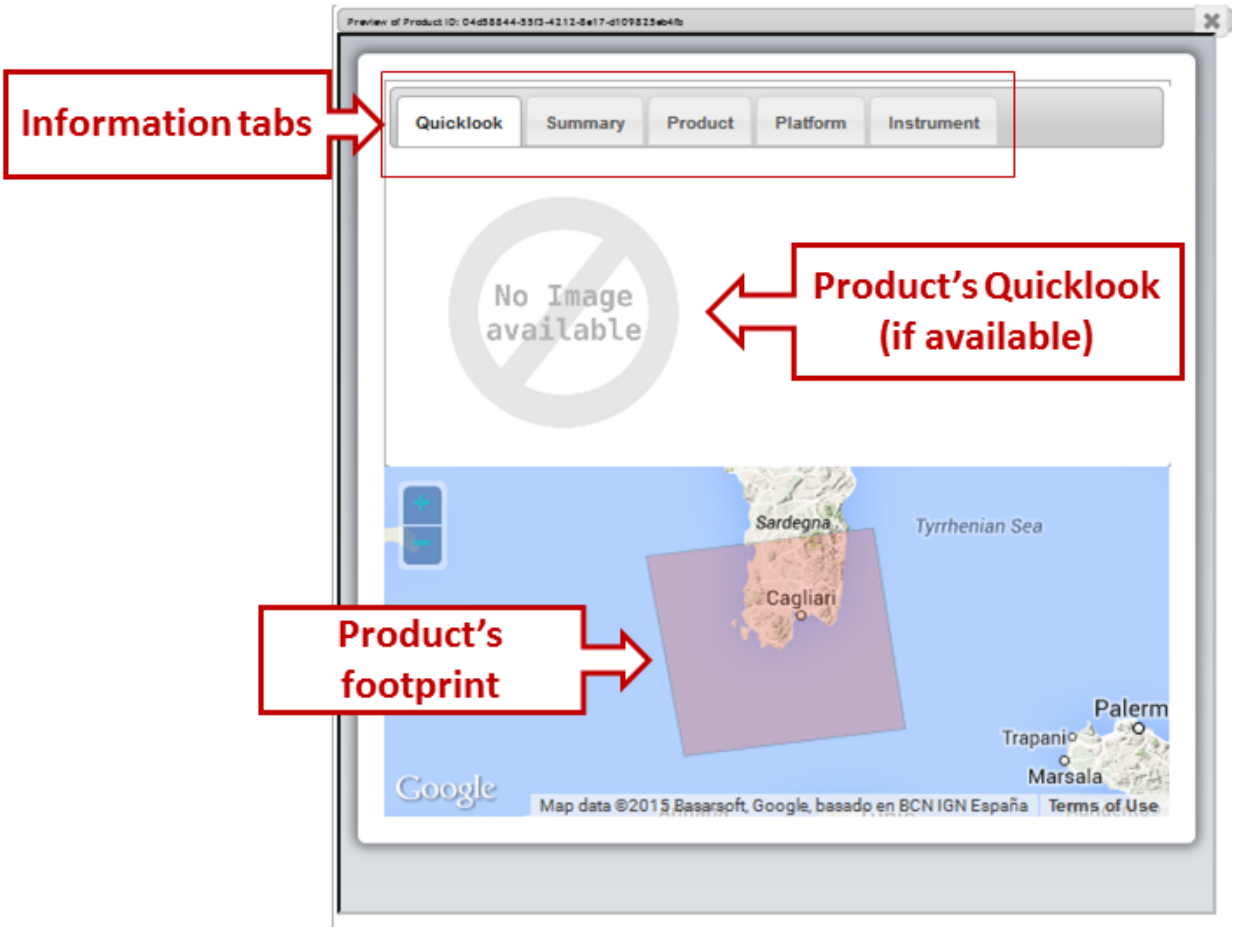

Figure 14: Preview of the Hellenic Sentinel Mirror Site's preview modal window.

Order Product

Since you have found the products you are interested in, you can download them by creating an order and add each one of them into that order. The procedure is easy and is described below:

1. You have to add the products you are interested in into a cart. In order to do that you just click the *Add Product to Current Order* icon (see Figure 13 above) for each product you want to order (and download thereafter). In the following figure we are showing the products we want to download for the search example above. After you finish adding products that you want to order, you can go to your current order and submit it so as to be able to download them. You have two ways to go to your current cart:
    a. Click on the *Check Cart Status* icon,
    b. Click on the **CART** tab in the page header (see Figure 8 above).

    Since you click on the cart page you can view previous orders and the most important, submit the current order. In order to submit your current order, you have to click on the *Submit Order* button.
2. After you submit your current order you cannot make any further changes (i.e. add or remove any products), but you can view the progress of this order. An order has 4 distinct statuses:
    a. **Submitted**: the order is accepted from the system.
    b. **In queue**: the system has started to download the order's products that are not locally stored (i.e. in the mirror site's storage system).
    c. **Processed**: all the products of the order have been downloaded and stored locally. The user can download all the products of this order.
    d. **Expired**: the order is no longer valid and the user cannot further download its products.

    Every product of an order has also 4 distinct statuses:
    a. **Remote**: the product is not stored locally.
    b. **Downloading**: the product is being downloaded from the Sentinel Collaborative Data Hub.
    c. **Corrupted**: the product is stored locally, but for some reason is not in valid state.
    d. **Local**: the product is stored locally and any user can download it through an order.
3. When an order is processed, you can download as many times you want any of its products till the order gets expired typically after a two days period. After the order expires you will not anymore be able to download these products.

The next figures (Figure 15, Figure 16, Figure 17, Figure 18 and Figure 19) describe the whole ordering procedure. Those figures also describe the progress steps of an order, as well as the various statuses of the ordered products.

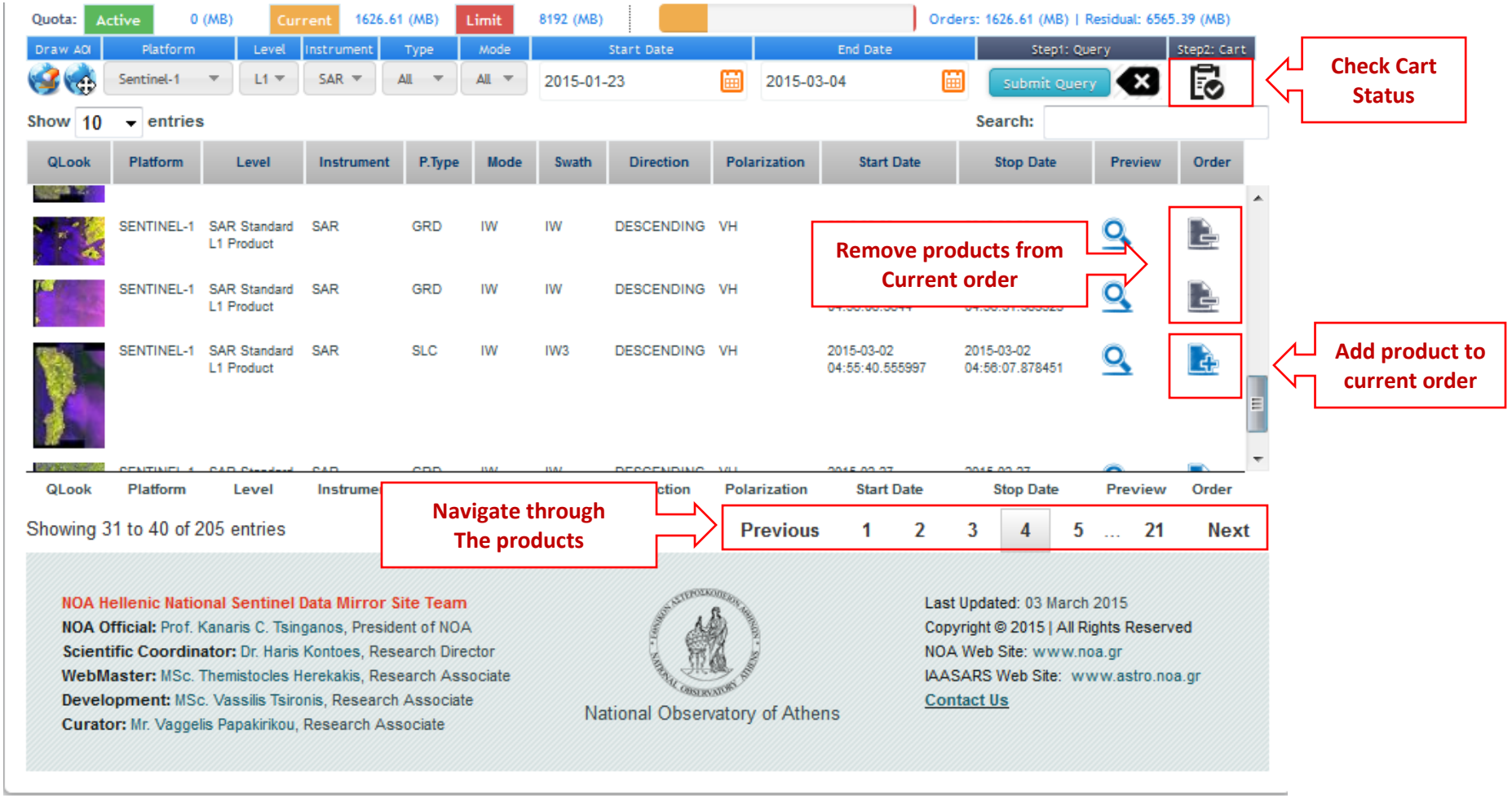

Figure 15: Example of how to order products from the Hellenic Sentinel Mirror Site.

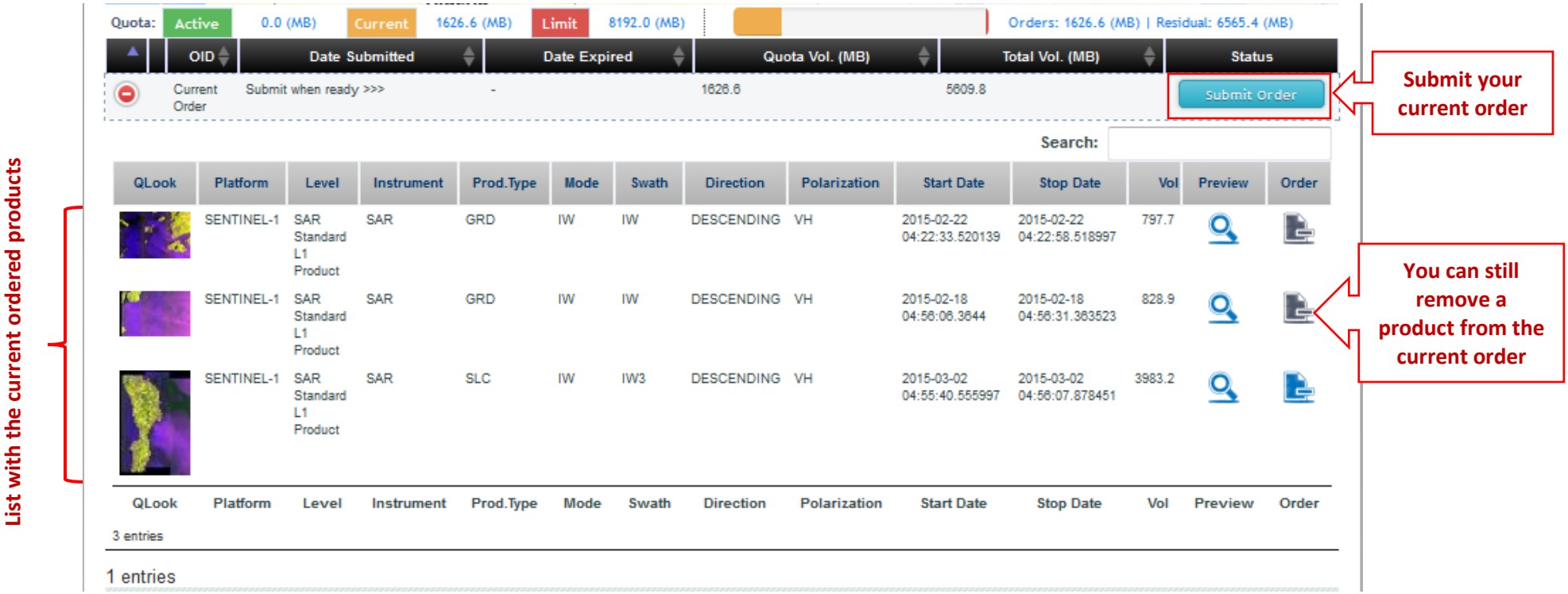

Figure 16: Example of how the current order looks like in Hellenic Sentinel Mirror Site's cart page.

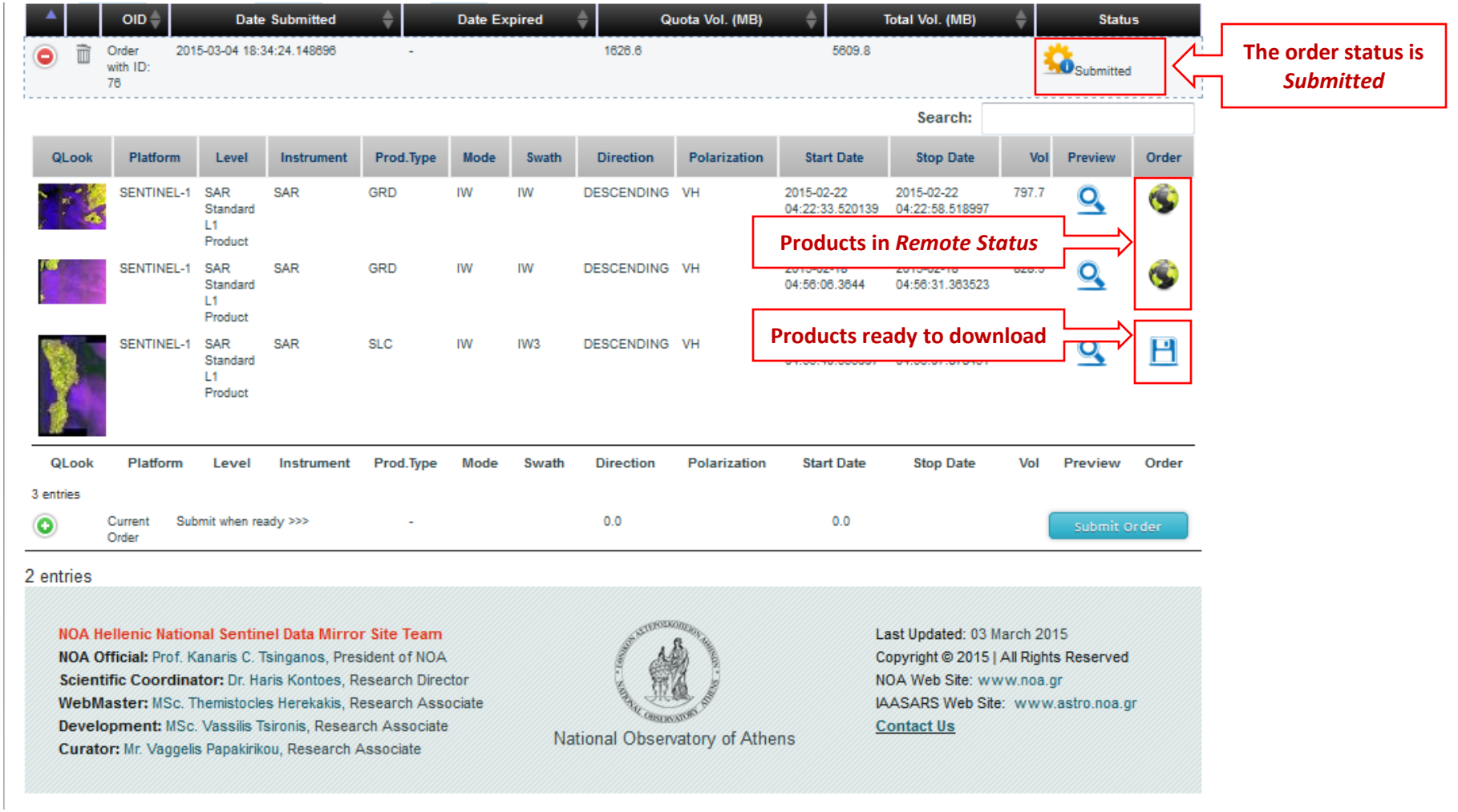

Figure 17: Example of how an order that is in submitted status looks like in the Hellenic Sentinel Mirror Site's cart page.

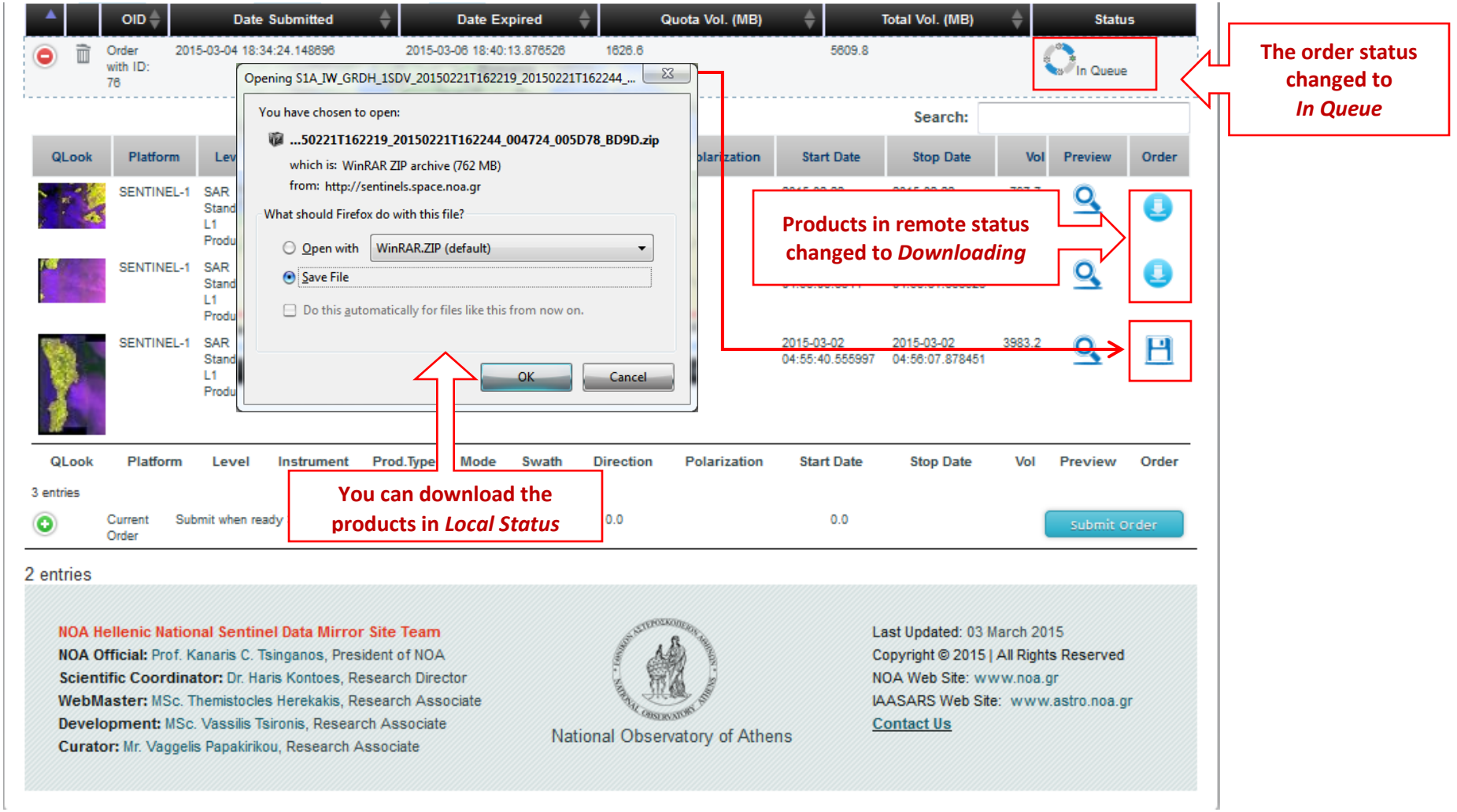

Figure 18: Example of how an order that is in queue status looks like in the Hellenic Sentinel Mirror Site's cart page.

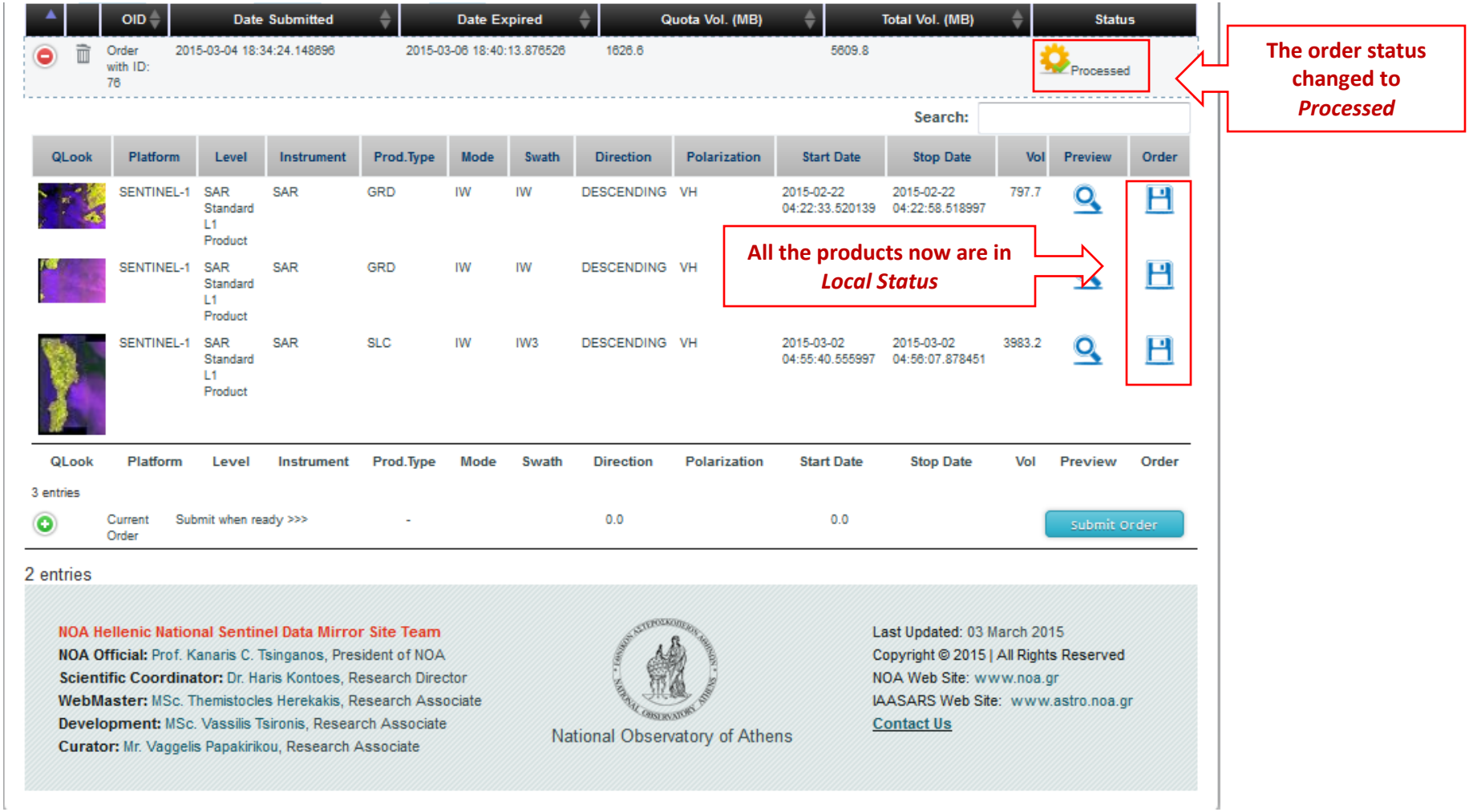

Figure 19: Example of how an order that is in processed status looks like in the Hellenic Sentinel Mirror Site's cart page.

The Quota Mechanism

The Hellenic Sentinel Mirror Site includes a quota mechanism in order to ensure fair, balanced and quick distribution of Sentinel Products to the final users. Thus each user is allowed to order products up to a predefined total volume (Quota Limit). Once this limit is exceeded the user is not allowed to submit more orders till the submitted ones get expired, deleted by the user or the current order is modified in order to conform to the quota limit.

Recently acquired Sentinel products are free of quota charge and are depicted by the blue icon order status (Figure 13), while older products that cost in quota by volume are depicted by the gray icon order status. Both the Search and Order Tabs include the User Quota Information Bar where the following information is depicted according to (Figure 20):

a) Total volume (Green Color) of products in orders already submitted to the system.
b) Total volume (Orange Color) of products in the current - not yet submitted order.
c) The maximum allowed total volume (Quota limit)
d) An indicator depicting graphically the previous three volume statuses. In the example below current order's quota volume exceeds the quota limit (red line on the indicator). The user has to modify the list of ordered products within the current order to conform to the quota limit.
e) The total volume of active and current orders.
f) The residual of the total volume of the products in user defined orders, from the quota limit. In this example the user has exceeded the allowed quota limit by 958.45 MB.

Figure 20: Preview of the User Quota Information Bar.

Change Profile

If you want to change some of the information you used during the registration in the mirror site, you have to follow the steps below:

1. Login to the mirror site.
2. Click on the **USER PROFILE** tab.
3. Change the information using the corresponding fields in the profile form and click on the *Save Modifications* button (see Figure 21 below). An email will be sent to your account informing you about your profile's update.

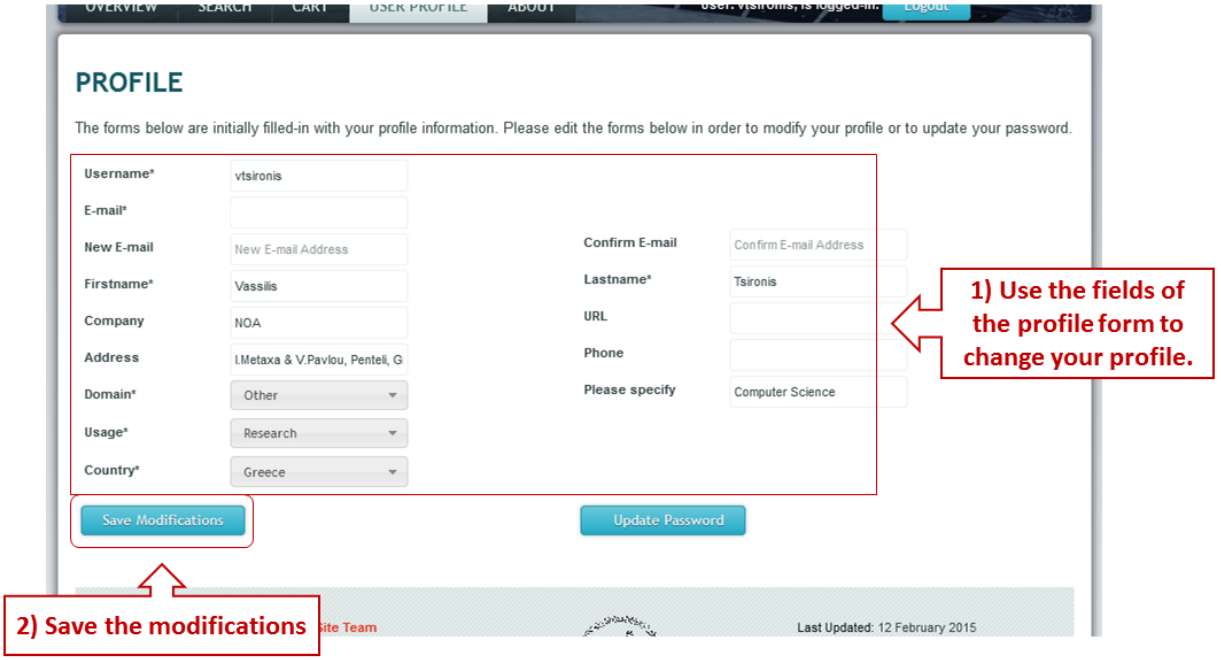

Figure 21: Example of how to change the personal information using the Hellenic Sentinel Mirror Site's user profile page.

Change Password

In order to change your password you need to follow a slightly different procedure.

1. Login to the mirror site.
2. Click on the **USER PROFILE** tab.
3. Click on the *Update Password* button.
4. Fill in the fields *New Password* and *Confirm Password* of the new form that will appear (see Figure 22 below).
5. Click on the *Change Password* button.

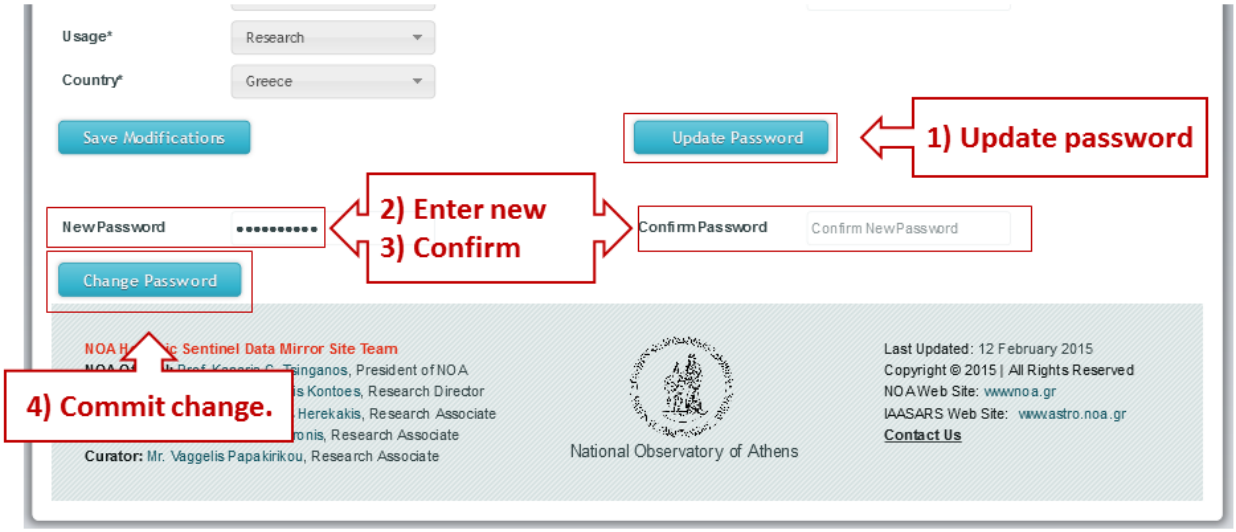

Figure 22: Example of how to change the login password using the Hellenic Sentinel Mirror Site's user profile page.

About the Mirror Site

You can find detailed information about the Hellenic Sentinel Mirror Site in the following URL: http://sentinels.space.noa.gr/about.php

Contact Us

If you want to contact somebody from the NOA Hellenic Sentinel Data Mirror Site Team you can visit the *Contact Us* page which is found on the following URL: http://sentinels.space.noa.gr/contact.php